

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/574,786
Source: IFWP
Date Processed by STIC: 5/5/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/574,786

CRF Edit Date: 5/5/06
Edited by: AL

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

J Deleted: J invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 05/05/2006

PATENT APPLICATION: US/10/574,786

TIME: 16:36:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574786.raw

3 <110> APPLICANT: Bayer HealthCare AG
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
 Mosaic Serine
 6 Protease (MSP)
 8 <130> FILE REFERENCE: BHC 03 01 007
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,786
 C--> 10 <141> CURRENT FILING DATE: 2006-04-06
 10 <160> NUMBER OF SEQ ID NOS: 5
 12 <170> SOFTWARE: PatentIn version 3.1
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 2380
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 19 <400> SEQUENCE: 1

20	cgcccgggca	ggttgagaag	ccagggggcca	agatggatct	tctcctcgac	atcagctaag	60
21	cctggaggac	tcttccctc	agagaccatg	gagagggaca	gccacgggaa	tgcattctcca	120
22	gcaagaacac	cttcagctgg	agcatctcca	gccagggcat	ctccagctgg	gacacctcca	180
23	ggccgggcat	ctccagccca	ggcatctcca	gccagggcat	ctccagctgg	gacacctccg	240
24	ggccgggcat	ctccagccca	ggcatctcca	gctgggtacac	ctccaggccg	ggcatctcca	300
25	ggccgggcat	ctccagccca	ggcatctcca	gcccgggcat	ctccggctct	ggcatcactt	360
26	tccaggctct	catccggcag	gtcatcatcc	gccaggtcag	cctcggtgac	aacctcccca	420
27	accagagtgt	acctgttag	agcaacacca	gtgggggctg	tacctatccg	atcatctcct	480
28	gccaggtcag	caccagcaac	cagggccacc	agggagagcc	caggtacgag	cctgcccagg	540
29	ttcacctggc	gggagggcca	gaagcagcta	ccgctcatcg	gggtcggtgt	cctcctcatt	600
30	gccctggtgg	tttcgctcat	catcctcttc	cagttctggc	agggccacac	agggatcagg	660
31	cacaaggagc	agagggagag	ctgtcccaag	cacgctgttc	gctgtgacgg	gggtggtggac	720
32	tgcaagctga	agagtgaaga	gctgggctgc	gtgaggtttg	actgggacaa	gtctctgctt	780
33	aaaatctact	ctgggtcctc	ccatcagctg	cttcccatct	gtagcagcaa	ctggaatgac	840
34	tcctactcag	agaagacctg	ccagcagctg	ggtttctgaga	gtgctcaccg	gacaaccgag	900
35	gttgcccaca	gggattttgc	caacagcttc	tcaatcttga	gatacaactc	caccatccag	960
36	gaaagcctcc	acaggtctga	atgcccttcc	cagcgggtata	tctccctcca	gtgttcccac	1020
37	tgcgactga	gggccatgac	cgggcggatc	gtgggagggg	cgctggcctc	ggatagcaag	1080
38	tggccttggc	aagtgaatct	gcacttcggc	accaccacac	tctgtggagg	cacgctcatt	1140
39	gacgccagct	gggtgctcac	tgccgcccac	tgcttcttcg	tgaccgggga	gaaggtcctg	1200
40	gagggctgga	aggtgtacgc	gggcaccagc	aacctgcacc	agttgcctga	ggcagcctcc	1260
41	attgccgaga	tcacatcaaa	cagcaattac	accgatgagg	aggacgacta	tgacatcgcc	1320
42	ctcatgctgc	tgtccaagcc	cctgaccctg	tccgctcaca	tccaccctgc	ttgcctcccc	1380
43	atgcatggac	agacctttag	cctcaatgag	acctgctgga	tcacaggctt	tggcaagacc	1440
44	agggagacag	atgacaagac	atcccccttc	ctccggggagg	tgcagggtcaa	tctcatcgac	1500
45	ttcaagaaat	gcaatgacta	cttggtctat	gacagttacc	ttaccccagg	gatgatgtgt	1560
46	gctggggacc	ttcgtggggg	cagagactcc	tgccagggag	acagcggggg	gcctcttgct	1620
47	tgtgagcaga	acaaccgctg	gtacctggca	ggtgtcacca	gctggggcac	aggctgtggc	1680
48	cagagaaaca	aacctggtgt	gtacacaaaa	gtgacagaag	ttcttccctg	gatttacagc	1740
49	aagatggagg	taagatccct	gcagcaggac	actgcaccca	gcaggctggg	aacttcctca	1800

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/574,786

DATE: 05/05/2006

TIME: 16:36:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574786.raw

```

50 ggtgggggacc ctggaggagc acccaggggtg taggcagagg tcccctcagc gtcccatat 1860
51 tcgggggggtg ttctggacag ggtcaaatgt gatgcctggg gtcaatccca gctgtctgtg 1920
52 tttctttccc tgcttttctt ccctcagaac agagctcagc ggggtgaaaa aggggtggacc 1980
53 tacaggccag gcaggcagtt gctgggcaga tgttctccca gaagtatttt tttgtgtaag 2040
54 gttgcaatgg actttgaaaa cgtttcagtt tctgcagagg attttgtgat agtctttgtt 2100
55 atcaagcatt tatgcatggg aatccgctct tcatggcctt tcccagctct gtttgtttta 2160
56 gtctttttga ttttcttttt gttgttggtg ttgtcttttt ttaaaaacac aagtgactcc 2220
57 attttaactc tgacaacttt cacagctgtc accagaatgc tccctgagaa ctaccattct 2280
58 ttccctttcc cacttaaaat atttcatcag aacctcacca ctatcataaa agagtataaa 2340
59 gtaataaaat aataaaaaagc gaaaaaaaaa aaaaaaaaaa 2380
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 581
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo sapiens
66 <400> SEQUENCE: 2
67 Met Glu Arg Asp Ser His Gly Asn Ala Ser Pro Ala Arg Thr Pro Ser
68 1 5 10 15
69 Ala Gly Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly Thr Pro Pro Gly
70 20 25 30
71 Arg Ala Ser Pro Ala Gln Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly
72 35 40 45
73 Thr Pro Pro Gly Arg Ala Ser Pro Ala Gln Ala Ser Pro Ala Gly Thr
74 50 55 60
75 Pro Pro Gly Arg Ala Ser Pro Gly Arg Ala Ser Pro Ala Gln Ala Ser
76 65 70 75 80
77 Pro Ala Arg Ala Ser Pro Ala Leu Ala Ser Leu Ser Arg Ser Ser Ser
78 85 90 95
79 Gly Arg Ser Ser Ser Ala Arg Ser Ala Ser Val Thr Thr Ser Pro Thr
80 100 105 110
81 Arg Val Tyr Leu Val Arg Ala Thr Pro Val Gly Ala Val Pro Ile Arg
82 115 120 125
83 Ser Ser Pro Ala Arg Ser Ala Pro Ala Thr Arg Ala Thr Arg Glu Ser
84 130 135 140
85 Pro Gly Thr Ser Leu Pro Lys Phe Thr Trp Arg Glu Gly Gln Lys Gln
86 145 150 155 160
87 Leu Pro Leu Ile Gly Cys Val Leu Leu Leu Ile Ala Leu Val Val Ser
88 165 170 175
89 Leu Ile Ile Leu Phe Gln Phe Trp Gln Gly His Thr Gly Ile Arg His
90 180 185 190
91 Lys Glu Gln Arg Glu Ser Cys Pro Lys His Ala Val Arg Cys Asp Gly
92 195 200 205
93 Val Val Asp Cys Lys Leu Lys Ser Asp Glu Leu Gly Cys Val Arg Phe
94 210 215 220
95 Asp Trp Asp Lys Ser Leu Leu Lys Ile Tyr Ser Gly Ser Ser His Gln
96 225 230 235 240
97 Trp Leu Pro Ile Cys Ser Ser Asn Trp Asn Asp Ser Tyr Ser Glu Lys
98 245 250 255
99 Thr Cys Arg Gln Leu Gly Phe Glu Ser Ala His Arg Thr Thr Glu Val
100 260 265 270

```

RAW SEQUENCE LISTING

DATE: 05/05/2006

PATENT APPLICATION: US/10/574,786

TIME: 16:36:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574786.raw

```

101 Ala His Arg Asp Phe Ala Asn Ser Phe Ser Ile Leu Arg Tyr Asn Ser
102      275      280      285
103 Thr Ile Gln Glu Ser Leu His Arg Ser His Cys Pro Ser Gln Arg Tyr
104      290      295      300
105 Ile Ser Leu Gln Cys Ser His Cys Gly Leu Arg Ala Met Thr Gly Arg
106 305      310      315      320
107 Ile Val Gly Gly Ala Leu Ala Ser Asp Ser Lys Trp Pro Trp Gln Val
108      325      330      335
109 Ser Leu His Phe Gly Thr Thr His Ile Cys Gly Gly Thr Leu Ile Asp
110      340      345      350
111 Ala Gln Trp Val Leu Thr Ala Ala His Cys Phe Phe Val Thr Arg Glu
112      355      360      365
113 Lys Val Leu Glu Gly Trp Lys Val Tyr Ala Gly Thr Ser Asn Leu His
114      370      375      380
115 Gln Leu Pro Glu Ala Ala Ser Ile Ala Glu Ile Ile Ile Asn Ser Asn
116 385      390      395      400
117 Tyr Thr Asp Glu Glu Asp Asp Tyr Asp Ile Ala Leu Met Arg Leu Ser
118      405      410      415
119 Lys Pro Leu Thr Leu Ser Ala His Ile His Pro Ala Cys Leu Pro Met
120      420      425      430
121 His Gly Gln Thr Phe Ser Leu Asn Glu Thr Cys Trp Ile Thr Gly Phe
122      435      440      445
123 Gly Lys Thr Arg Glu Thr Asp Asp Lys Thr Ser Pro Phe Leu Arg Glu
124      450      455      460
125 Val Gln Val Asn Leu Ile Asp Phe Lys Lys Cys Asn Asp Tyr Leu Val
126 465      470      475      480
127 Tyr Asp Ser Tyr Leu Thr Pro Arg Met Met Cys Ala Gly Asp Leu His
128      485      490      495
129 Gly Gly Arg Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys
130      500      505      510
131 Glu Gln Asn Asn Arg Trp Tyr Leu Ala Gly Val Thr Ser Trp Gly Thr
132      515      520      525
133 Gly Cys Gly Gln Arg Asn Lys Pro Gly Val Tyr Thr Lys Val Thr Glu
134      530      535      540
135 Val Leu Pro Trp Ile Tyr Ser Lys Met Glu Val Arg Ser Leu Gln Gln
136 545      550      555      560
137 Asp Thr Ala Pro Ser Arg Leu Gly Thr Ser Ser Gly Gly Asp Pro Gly
138      565      570      575
139 Gly Ala Pro Arg Val
140      580
142 <210> SEQ ID NO: 3
143 <211> LENGTH: 20
144 <212> TYPE: DNA
145 <213> ORGANISM: artificial sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: forward primer
150 <400> SEQUENCE: 3
151 gcctccacag gtctgaatgc
153 <210> SEQ ID NO: 4

```

20

RAW SEQUENCE LISTING

DATE: 05/05/2006

PATENT APPLICATION: US/10/574,786

TIME: 16:36:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574786.raw

154 <211> LENGTH: 19
155 <212> TYPE: DNA
156 <213> ORGANISM: artificial sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: reverse primer
161 <400> SEQUENCE: 4
162 cagtccgcag tgggaacac 19
164 <210> SEQ ID NO: 5
165 <211> LENGTH: 23
166 <212> TYPE: DNA
167 <213> ORGANISM: artificial sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: probe
172 <400> SEQUENCE: 5
173 cttcccagcg gtatatctcc ctc 23

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/574,786

DATE: 05/05/2006

TIME: 16:36:26

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574786.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,786

TIME: 14:06:30

Input Set : A:\pto.dn.txt

Output Set: N:\CRF4\05042006\J574786.raw

3 <110> APPLICANT: Bayer HealthCare AG
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
 Mosaic Serine
 6 Protease (MSP)
 8 <130> FILE REFERENCE: BHC 03 01 007
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,786
 C--> 10 <141> CURRENT FILING DATE: 2006-04-06
 10 <160> NUMBER OF SEQ ID NOS: 5
 12 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

164 <210> SEQ ID NO: 5
 165 <211> LENGTH: 23
 166 <212> TYPE: DNA
 167 <213> ORGANISM: artificial sequence
 169 <220> FEATURE:
 170 <223> OTHER INFORMATION: probe
 172 <400> SEQUENCE: 5
 173 cttcccagcg gtatatctcc etc
 E--> 176 BHC 03 1 007-Foreign Countries
 W--> 178 - 4 -
 E--> 181 BHC 03 1 007-Foreign Countries
 W--> 183 - 1 -

**Does Not Comply
 Corrected Diskette Needed**

23

delete

VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,786

TIME: 14:06:31

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05042006\J574786.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:176 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:178 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:181 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:183 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5